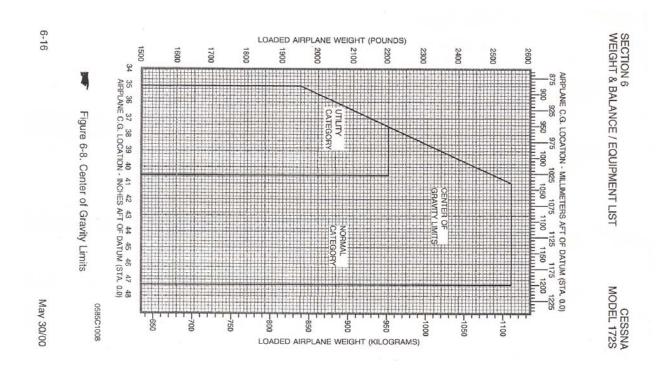
WEIGHT AND BALANCE / TOLD C-172S

C-172S	N-					
DATE:		SORTIE#		WEIGHT	ARM	MOMENT
PIC:				(LBS)	(IN)	(IN/LBS)
AIRCRAFT	BASIC EMPTY	WEIGHT				
	JEL (PICK ONLY ON	IE, FULL OR TAB	S)	+	X 48.0	+
	AL X 6 LBS/GAL AL X 6 LBS/GAL					
					V 07 0	
PILOT AND	COPILOT			+	X 37.0	+
REAR PAS	SENGERS			+	X 73.0	+
BAGGAGE	AREA 1 (120 LE	BS MAX)		+	X 95.0	+
BAGGAGE	AREA 2 (50 LBS	S MAX)		+	X 123.0	+
START, TA	XI, RUNUP FUE	L		-8.0	X 48.0	-384
TAKEOFF \	WEIGHT / CG / N	MOMENT				
MISSION F	UEL (10 GAL X	6 LBS X #HR	S)	-	X 48.0	-
LANDING V	WEIGHT / CG / N	MOMENT				

CG (IN) = SUM OF MOMENTS / SUM OF WEIGHTS
WRITE TAKEOFF AND LANDING CG IN ARM COLUMN ABOVE, MARK ON DIAGRAM BELOW



WEIGHT AND BALANCE / TOLD C-172S

15 50 90 90 70 70 70 50 50 50 50

SECTION 5 PERFORMANCE

SECTION 5 PERFORMANCE

CESSNA MODEL 172S

CESSNA MODEL 172S

SHORT FIELD LANDING DISTANCE

AT 2550 POUNDS

SHORT FIELD TAKEOFF DISTANCE AT 2550 POUNDS

Flaps 10° Full Throttle Prior to Brake Release Paved, level, dry runway Zero Wind 51 KIAS 56 KIAS Lift Off: Speed at 50 Ft: CONDITIONS:

-N				
C-172S	TEMP	PA	TO DIST	LND DIST

S-172S	-Z	CONDITIONS:
FMP		000 000
		Power Off
		Maximum Braking Paved level dry ninway
O DIST		Zero Wind
ND DIST		Speed at 50 Ft. 61 KIAS

र महिं भूव

Grind Total Grind Roll Ft To Roll Ft Clear Ft 50 Ft Obst
pst
1380
605
277 E
1385
585
1320
N K

2135 2355 2605

1990

1850 2035

1090

1010

1600

940

1945

1150 1260

1810

1070 1170 1285 1410 1550 1705 1875 2065 2280

1690

995

1575 1720

925

1465

860

S.L. 1000 2000

Feet

Ft To Clear 50 Ft Obst

2 2 3 4 4 4

E t

Grnd Ft Ft

Total Ft To Clear 50 Ft Obst

Grnd

Total ပ္ပင္ပ

Srnd

E t

品は

Press Alt In

Clear 50 Ft Obst

30°C

20°C

10°C

3205 3585

2975

4615

2450

4225

3880

3575

1970

3265

1820

8000

NOTES:

3730 2215 4045

3440

3170 1920 2120

2910 1785

3320

2830 1745 3075

1585

2545

1355 1495 1645

> 0009 7000

2880

1660 1825 2010

2685

2480 2755

1440

2120 2345

1235

1515 1380

2420 2190

2240

1310

2080 2295

1925

1125

3000 4000 5000

1195

1890

1110 1215 1335 1465 2605 1615

1755

1025

NOTES

Short field technique as specified in Section 4.

Prior to takeoff from fields above 3000 feet elevation, the mixture should Decrease distances 10% for each 9 knots headwind. For operation with

Short field technique as specified in Section 4.

Si 3

be leaned to give maximum RPM in a full throttle, static runup.

- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots. -- «i
- For operation on dry, grass runway, increase distances by 45% the "ground roll" figure. 3

of the

For operation on dry, grass runway, increase distances by 15%

"ground roll" figure.

Figure 5-5. Short Field Takeoff Distance (Sheet 1 of 3)

tail winds up to 10 knots, increase distances by 10% for each 2 knots.

If landing with flaps up, increase the approach speed by 9 KIAS and allow for 35% longer distances.

Figure 5-11. Short Field Landing Distance

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5-23/(5-24 blank)

5-14